

Listing of Claims:

1.- 23. (canceled)

24. (currently amended) A computer system of exposing at least one local service as at least one web service, the computer system comprising:

a ~~receiving module~~ receiver within the computer system configured to receive a call for the at least one web service, wherein the call comprises a request and a response and wherein receiving the call comprises:

identifying a client that sent the call, wherein identifying includes using HyperText Transfer Protocol (HTTP) authentication; and

checking if at least one client bundle for the client exists;

a ~~delegating module~~ processor coupled to the receiver within the computer system configured to:

delegate the call to a client bundle, wherein delegating comprises:

identifying the client by a user identification tag (user ID) used by the client that sent the call to make the request;

creating the client bundle that is configured to be not persistent and to not register services for other bundles to use, wherein creating comprises, if at least one client bundle for the does not exist;

instantiating a client bundle for the client;

creating a union of all permissions that correspond to a client and groups to which the client belongs;

adding the union to a permission administration service for the client bundle;

registering a web service client service in a service registry, wherein registering comprises using the web service to forward the request to the client bundle; and

forwarding the request to the web service client service registered by the client bundle;

~~an obtaining module within the computer system configured to obtain the~~
at least one local service from ~~a~~ the service registry via the client bundle, wherein
obtaining comprises organizing services in namespaces of the form /ws/sid/\$sid, wherein
\$sid comprises an identification of an exposed service;

~~an invoking module within the computer system configured to invoke at~~
least one method on the at least one local service via the client bundle, wherein invoking
comprises using a class loader of the at least one local service to instantiate and reflect on
all classes referenced by the at least one local service; and

~~a returning module within the computer system configured to return a~~
response from the invoked method for the at least one web service.

25. (currently amended) A processor-implemented method of exposing at least one local service as at least one web service via a computer system, the method comprising:

receiving via the computer system a call for the at least one web service, wherein the call comprises a request and a response and wherein receiving the call comprises:

identifying a client that sent the call, wherein identifying includes using
HyperText Transfer Protocol (HTTP) authentication; and

checking if at least one client bundle for the client exists;

delegating via the computer system the call to a client bundle, wherein delegating
comprises:

identifying the client by a user identification tag (user ID) used by the
client that sent the call to make the request;

creating the client bundle that is configured to be not persistent and to not
register services for other bundles to use, wherein creating comprises, if at least one client
bundle for the does not exist;

instantiating a client bundle for the client;

creating a union of all permissions that correspond to a client and
groups to which the client belongs;

adding the union to a permission administration service for the
client bundle;

registering a web service client service in a service registry,
wherein registering comprises using the web service to forward the request to the client
bundle; and

forwarding the request to the web service client service registered
by the client bundle;

obtaining via the computer system that at least one local service from ~~a~~ the service
registry via the client bundle, wherein obtaining comprises organizing services in
namespaces of the form /ws/sid/\$sid, wherein \$sid comprises an identification of an
exposed service;

invoking via the computer system at least one method on the at least one local
service via the client bundle, wherein invoking comprises using a class loader of the at
least one local service to instantiate and reflect on all classes referenced by the at least
one local service; and

returning via the computer system a response from the invoked method for the at
least one web service.